

July 5, 1955

Mr. Robert C. Hockett
Associate Scientific Director
Tobacco Industry Research Committee
5320 Empire State Building
New York, New York

Dear Bob:

As you know, we are attempting a small-scale study of the mechanics of human smoking. We have assembled some crude instruments for this work but are constantly on the lookout for possible improvements.

The first Project Report of the Study of Effects of Smoking on Normal Subjects and Patients with Pulmonary Disease refers briefly to certain instruments and techniques used for recording instantaneous air flow rates and integration thereof to permit direct recording of air volume flows.

Would it be possible for us to obtain from Dr. Segal through you a more detailed description of his instruments and techniques in order that we might determine whether they would be applicable in our problem? I feel that the matter of human smoking mechanics is of extreme importance and that cooperation of various laboratories in this effort would be highly desirable. As an example, unless we know the puff volume, smoke composition and volume of inhaled air, we cannot arrive at an estimate of the concentration of smoke constituents in the lung and therefore cannot estimate possible chemical effects on a national basis.

Sincerely,

Robert N. DuPuis
Vice President - Research

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